*Coaxial*

# Precision Fixed Attenuator

## BW-S4W2

50Ω 2W 4dB DC to 18000 MHz

CASE STYLE: FF658

### Maximum Ratings

| | |
|---|---|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C** |

**With mated connectors. Unmated, 85°C max.

Permanent damage may occur if any of these limits are exceeded.

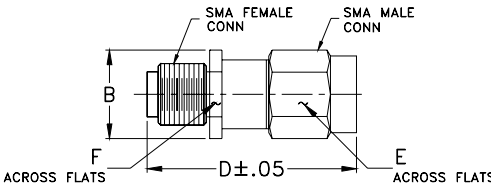
### Features

- DC to 18000 MHz
- precise attenuation
- excellent VSWR, 1.20 typ.
- stainless steel SMA male and female connectors

### Applications

- matching
- instrumentation
- test set-ups

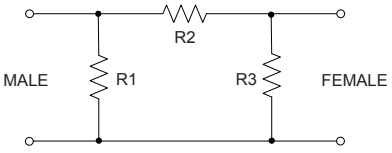
### Outline Drawing




### Outline Dimensions (inch / mm)

| B | D | E | F | wt |
|---|---|---|---|---|
| .36 | .85 | .312 | .312 | grams |
| 9.14 | 21.59 | 7.92 | 7.92 | 4.3 |

### Electrical Schematic



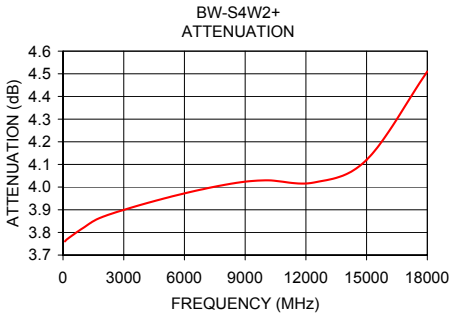

### Electrical Specifications

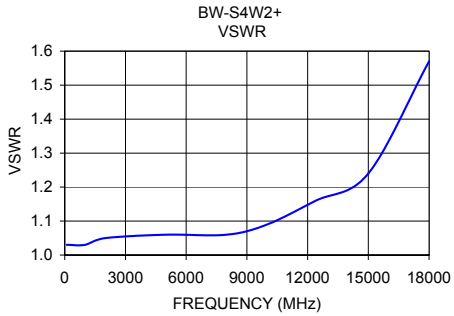
| FREQ. RANGE (MHz) | ATTENUATION[1] (dB) | | VSWR[2] (:1) | | | MAX. INPUT POWER[3] (W) |
|---|---|---|---|---|---|---|
| | | | DC-4 GHz | 4-8 GHz | 8-12.4 GHz | |
| $f_L$-$f_U$ | Nom. | ACCURACY | Max. | Max. | Max. | |
| DC-18000 | 4 | ±0.40 | 1.20 | 1.25 | 1.30 | 2 |

1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
3. Average power at 25°C ambient, derate linearly to 0.5W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF

### Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|---|---|---|
| 100.00 | 3.76 | 1.03 |
| 199.90 | 3.77 | 1.03 |
| 1000.00 | 3.82 | 1.03 |
| 1999.90 | 3.87 | 1.05 |
| 5000.00 | 3.95 | 1.06 |
| 7999.90 | 4.01 | 1.06 |
| 9999.90 | 4.03 | 1.09 |
| 12400.10 | 4.02 | 1.16 |
| 15000.00 | 4.12 | 1.24 |
| 18000.00 | 4.51 | 1.57 |









REV. D
M98898
EE-7120
BW-S4W2
120321